EXHIBIT D

UNITED STATES DISTRICT COURT
SOUTHERN DISTRICT OF WEST VIRGINIA
AT CHARLESTON

IN RE: ETHICON, INC., PELVIC
REPAIR SYSTEM PRODUCTS
LIABILITY LITIGATION

THIS DOCUMENT RELATES TO THE
FOLLOWING CASES IN WAVE 1 OF
FOLLOWING CASES IN WAVE 1 OF
MARTY Babcock v. Ethicon, Inc.
JOSEPH R. GOODWIN
Civil Action No. 2:12-cv-01052
U.S. DISTRICT
JUDGE

[Complete caption below]

DEPOSITION OF

SCOTT GUELCHER

Taken on behalf of the Defendants

March 23, 2016

8:51 a.m.

GOLKOW TECHNOLOGIES, INC. 877.370.3377 ph | 917.591.5672 fax deps@golkow.com

Page 18 1 Fair enough. My question, though, as 0. it relates to pelvic organ prolapse products, have 3 you discussed those opinions as they relate to pelvic organ prolapse products with anyone else? I -- I don't believe so. A. Doctor, have you -- have you ever told 0. any doctor at Vanderbilt that you have concerns about the safety of polypropylene or PROLENE mesh? I had some email correspondence with a A. 10 Vanderbilt OB/GYN. I had some -- we -- it wasn't 11 about -- it wasn't about opinions about the 12 It was about research on polypropylene products. 13 oxidation. But I haven't discussed my opinions 14 with them. 15 Do you know how many doctors 0. 16 practice medicine at Vanderbilt? 17 A. No. 18 Have you ever told a doctor at 19 Vanderbilt that you believe PROLENE mesh degrades 20 via oxidation? 21 I haven't had the opportunity. No. A. 22 Doctor, you -- your lawyers -- or a 0. 23 lawyer sitting to the right of you is producing me 24 a flash drive with all the documents you have

```
Page 21
 1
         A.
                  Yes, I am.
         Q.
                  The Society for Biomaterials?
 3
         A.
                  Yes.
                  Research Society For Bone and Joint
         Ο.
      Injectable Biomaterials?
         Α.
                  Yes.
                  I noticed that your expert report,
         0.
      which is marked as Exhibit 2, doesn't include those
 9
      professional societies. Why not?
10
                  They're listed on my CV, which is part
         A.
11
      of the report. I -- I don't know why. I just
      didn't list them.
13
                  Doctor, do you recall -- did you ever
14
      read the deposition transcript from the Mullins
15
      litigation?
16
                  I don't remember. I've -- I just don't
         Α.
17
      remember.
18
                  Have any of your opinions changed since
         0.
19
      you were deposed in the Mullins litigation?
20
         A.
                  No.
21
                  What has been your total billing amount
         0.
22
      that you have billed plaintiff attorneys since the
23
      Mullins litigation?
24
                  Oh, in this particular case.
         Α.
```

Page 22 1 submitted a bill for the report, for 10,000 for the 2 medium report. 3 What about any charges for your time? 0. For this litigation? I don't think so. Α. 5 Oh. No. This -- this is the only -- that was the only one for this litigation. 7 Have you done any additional work since the Mullins deposition regarding mesh? What do you mean by "work"? Do you Α. mean testing or reading? I'm not sure what you 10 11 mean. 12 Well, any other work that you believe 0. 13 is applicable to the mesh litigation since you were 14 deposed in Mullins in September 2015. 15 I -- I've not done any -- any testing. Α. 16 I've done more reading, research. But I've not 17 done any testing since that time. 18 What additional research have you done? 19 Reviewing the newer papers that were in A. 20 the report, reviewing the -- the Ethicon internal 21 documents, that sorts of activities. 22 The "newer papers" that you're 0. 23 referring to, are those contained in your expert

Golkow Technologies, Inc. - 1.877.370.DEPS

24

report?

```
Page 30
1
                 Do you still defer to Dr. Dunn on the
         0.
      interpretations of the FTIR spectra?
         A.
                 I do.
                 And you disclosed this work in the
         0.
      Perry litigation, didn't you? That was for TVT
      ABBREVO?
                 The ABBREVO would be another product.
         A.
      Yes.
                 And you attempted to rely on this paper
         0.
10
      in the Perry litigation, didn't you?
11
                                Object to form.
                  MR. BOWMAN:
12
                  THE WITNESS: I -- I just don't
                 It may have been on the -- on the -- on
14
      the reliance list, but I don't -- I know it came up
15
      in the deposition, but I deferred to Dr. Dunn for
16
      the experimental details in the deposition.
17
      what I remember.
      BY MR. HUTCHINSON:
                 Did you rely on this, Doctor, in
19
         0.
20
      forming your opinions in the Perry litigation
21
      regarding TVT ABBREVO?
22
         Α.
                  I don't believe so.
                                        I mean, my
23
      opinions have not changed in some time. So this
24
      was supplemental information that supported my
```

```
Page 31
1
      opinion, but -- and it was on the reliance list
      but -- I think it was. I just -- I can't remember
3
      the details.
                 Doctor, you relied on this work, that
         0.
      we've marked as Exhibit 3 to your deposition, in
      the Winebarger versus Boston Scientific litigation;
      is that correct?
                                                        I
         A.
                 Winebarger? What product was this?
      can't remember the names -- the plaintiff name.
10
         Q.
                 It was a lawsuit styled Winebarger,
11
      W-i-n-b-a-r-g-e-r, versus Boston Scientific.
                 That name just doesn't sound -- was it
12
      part of a wave? Was it -- I just don't remember
13
14
      the plaintiffs' names probably.
15
                 Do you recall relying on this work that
         0.
16
      was marked as Exhibit 3 in the Winebarger versus
17
      Boston Scientific litigation?
18
                 I don't. Because I don't recall the
         A.
19
      litigation. I just -- I don't -- the -- the
      plaintiff's name is -- that doesn't sound familiar
20
21
      to me.
22
                 Okay. Doctor, when we look at Exhibit
         0.
23
      3, what product was used in your work?
24
                 It's been some time.
                                        I don't remember.
         A.
```

```
Page 35
1
      an answer, based upon a reasonable degree of
      scientific certainty. Can you testify today, to a
      reasonable degree of scientific certainty,
      regarding the specific names of the products used
      in this experiment?
                 I mean, I believe, to a reasonable
      degree of scientific certainty, that's what we --
      that's what we used. That's what I remember.
9
      know, I work closely with Dr. Dunn. Our offices
10
      are right beside each other. So, I mean, he --
11
      he -- that's what I believe he did.
12
                 Okay. And, Doctor, when you were
13
      deposed in September in the Mullins litigation, you
14
      didn't rely on this abstract for your opinions in
15
      that; is that correct?
16
                 I don't believe so.
         A.
17
                 And you're not relying on the abstract
         0.
18
      that you published for your opinions in this
19
      litigation; is that correct?
20
         A.
                 No, I'm not.
21
                 Okay. Why not?
         Q.
22
                 Well, we -- we -- we would like to
         A.
23
      publish it. And that's something -- that's part of
24
      what we're -- we -- we just -- we're -- we're
```

```
Page 36
1
      working on it. We don't know what we're going to
      do yet. It's just -- you know, we have -- very
      busy, and it's -- I don't -- I don't know what the
      plan is. But I'm not relying on it because we
      haven't published it.
                 Okay.
                         Any other reasons?
                       That's the main reason.
         A.
      believe the Court likes to see published studies
      and that's --
10
                 Okay.
         0.
11
                  -- that -- that's our plan.
         A.
                 But it's fair to say that you've
12
         0.
13
      written a paper that investigated oxidative
14
      degradation of polypropylene mesh in vitro using an
15
      oxidative medium and you're not relying on that
16
      work in this litigation?
17
                   MR. BOWMAN: Object to form.
18
                   THE WITNESS: Can you repeat that?
                                                         I'm
19
      sorry.
20
      BY MR. HUTCHINSON:
21
         0.
                  Yes.
22
         A.
                  It was long.
23
                  It's fair to say that you've written a
         0.
24
      paper --
```

```
Page 37
1
                 Okay.
         A.
2
                  -- that investigated oxidative
         0.
3
      degradation of polypropylene using an oxidated
      medium and you're not relying on it in this
      litigation; is that fair to say?
                  I would say it's a submitted abstract.
      This is a submitted abstract.
                                       I wouldn't call this
                It's a published abstract, and it is peer
      a paper.
      reviewed but not like a paper. It's not -- I'm not
10
      relying on it.
11
                 And --
         0.
12
         Α.
                 And that -- go ahead.
13
                 What is the status of this work,
         0.
14
      Doctor?
15
         Α.
                  As I said, I -- I -- I don't know.
                                                        We
16
      don't know what we're going to do with it yet.
17
                  When is the last time you talked to
         0.
18
      Dr. Dunn about this?
19
                  I don't remember.
         Α.
20
                  Has it been more than six months?
         0.
21
                  Probably not. But I just don't -- I
         A.
22
      don't remember what we said about this.
23
      haven't -- I haven't relied on it in the recent
24
      litigation in some time. And it's -- you know,
```

```
Page 59
1
                 And, Doctor, for the POP products, do
      you know the weight of the mesh per meter squared?
3
                 I don't remember them all.
         A.
                                                The -- the
      GYNEMESH is 45 grams per square meter.
      PROLIFT+M, that's the one that's the blend, has the
6
      resorbable polyester. After the polyester resorbs,
      the density is 28. So it's probably, roughly, you
      know, half, something in that range. So as the
      polyester resorbs, the density goes down.
10
                 And, Doctor, if we look at the Moalli
         Q.
11
      paper
12
         A.
                 Okay.
                  -- that you have, the mesh didn't
13
         0.
14
      oxidize after 12 weeks, did it?
                 Well, she wasn't testing for oxidation.
15
         Α.
      She was looking at the cellular response.
16
17
      wouldn't say that it didn't oxidize.
                                              I just -- I
                                              But I don't
      don't think she reported that it did.
18
      know that she really did any testing for that.
19
20
                  A causal relationship wasn't
         Q.
21
      established in that paper, was it, sir?
22
                  A causal relationship --
         A.
23
         Q.
                  Correct --
24
                  -- between what?
         A.
```

```
Page 61
1
         A.
                 Okay.
2
                  -- Number 1 --
         Q.
3
         A.
                  So we -- okay. Go ahead.
                                              Sorry.
                  Number 1 discusses "polypropylene
         0.
5
      reacts with molecular oxygen by autoxidation
      outside the body at elevated temperatures,
      resulting in chain scission and deterioration. . . "
 8
                   Do you see that?
                  Yes.
         A.
10
                 At what elevated temperatures outside
         0.
11
      the body?
                  I have to look at the details again.
12
         A.
      Temperatures above 100 C. That is 100 Celsius.
13
14
                  And -- and what is the normal body
         0.
15
      temperature in Celsius degrees of the human body?
16
         Α.
                  37.
17
                  And what is autoxidation, Doctor?
         0.
                  Well, "autoxidation" is a term that
18
         A.
      some use to describe the reactive -- the reaction
19
20
      of the polypropylene with molecular oxygen at
21
      elevated temperatures.
                  And we don't have elevated temperatures
22
         0.
      in the body, in vivo, do we, to the point where it
23
24
      would autoxidate?
```

```
Page 62
1
                  MR. BOWMAN: Object to the form.
                  THE WITNESS: Well, the body
      temperature is 37 degrees C. So that reaction with
3
      molecular oxygen would be slow. I mean. . .
      BY MR. HUTCHINSON:
                 In fact, have you quantified how slow
      it would be?
                 Well, I mean, Leibert addressed that
8
         A.
      question with molecular oxygen.
                 But my question to you, sir, is have
10
         Q.
      you personally quantified that?
11
                      Because I don't think it's
12
                 No.
      relevant because there's more reactive forms of
13
      oxygen in the body that are causing the reaction.
14
15
      So. . .
                 What is -- what is required for PROLENE
16
         0.
      to undergo autoxidation?
17
                 Well, PROLENE will undergo oxidation
18
         Α.
      with molecular oxygen. It -- it -- it can happen
19
      at lower temperatures. It's just very, very slow.
20
21
                  Okay.
         0.
                  So, I mean, it happens faster. Like
22
23
      any chemical reaction --
24
                  I understand.
         Q.
```

```
Page 66
1
                   THE WITNESS: Well, I mean, the paper
2
      published in 2015 by Mays, et al., showed
3
      reductions in molecular weight. Now, that wasn't
      PROLENE, but it was still polypropylene with
5
      antioxidants.
      BY MR. HUTCHINSON:
         0.
                 Okay.
                  It's very similar material.
8
         Α.
                  Okay. Let's -- let's focus on PROLENE,
         0.
10
      though, Doctor.
11
                   What scientific evidence do you have
12
      for chain scission having occurred with PROLENE in
13
      vivo?
14
                   MR. BOWMAN: Object to form.
                                                     I don't
15
                                  PROLENE in vivo.
                   THE WITNESS:
16
      know of a study that specifically looked at chain
17
      scission of PROLENE in vivo.
18
      BY MR. HUTCHINSON:
                  And, Doctor, what scientific evidence
19
         0.
      do you have for any PROLENE implant having oxidized
20
      to produce a carbonyl group, a C double bond 0?
21
                  Can we go back to the chain scission
22
         A.
23
             I just remembered something or -- or I need
24
      to answer this first.
```

```
Page 69
1
                 Clavé would be the one that -- I think
         Α.
      Céline Mary discussed this as well.
3
                 Okay. And is that the only scientific
         0.
      evidence that you're relying on is Clavé and the
5
      internal Ethicon documents for a PROLENE implant
      having oxidized to produce a carbonyl group?
                                Object to form.
                  MR. BOWMAN:
                  THE WITNESS:
                                 Those are the documents
      that come to mind that I've testified about before.
10
      BY MR. HUTCHINSON:
11
                 Okay. Doctor, do you have -- and let's
         0.
      talk about -- my question is very specific as it
12
      relates to the nine specific products that you're
13
14
      here to give testimony about.
15
         A.
                  Okay.
                  TVT, TVT-O, TVT ABBREVO, TVT-SECUR, TVT
16
         Q.
17
      EXACT, PROSIMA, GYNEMESH PS, PROLIFT, and
18
      PROLIFT+M.
                   Okay?
19
         Α.
                  Yes.
20
                  So my question, when I talk about the
         0.
21
      nine products, that's what I'm talking about.
22
                  I understand.
         A.
23
                  All right. Do you have any scientific
         0.
24
      evidence that any of those nine products were
```

```
Page 70
1
      implanted and oxidized to produce a carbonyl group?
                 Again, the only study that could have
      included those devices would be the Clavé study
      where he took the 100 explants. And also the study
      with Dr. Iakovlev, but that was looking more at --
      that was explanted mesh as well, that looked at the
      degradation layer. But not -- well, he did look at
      the question of oxidation indirectly with the
      myeloperoxidase staining that we saw.
10
                 Right. But not specifically for those
         0.
11
      nine products, correct?
12
                 Those nine products were not
13
      specifically mentioned in the Iakovlev study that I
14
      remember.
15
         0.
                 Thank you.
16
                  So the only -- the only paper that
17
      you're relying on as it relates to whether any of
18
      those nine products oxidized to produce a carbonyl
19
      group, after it was implanted in vivo, is the Clavé
20
      study; is that correct?
21
                  MR. BOWMAN: Object to form.
22
                  THE WITNESS:
                                 For those nine products,
23
      that would be the one that I would.
24
      BY MR. HUTCHINSON:
```

```
Page 72
      Iakovlev study, we -- there were a lot of explants,
2
      but they weren't specifically named.
                                             They were
3
      slings, POPs, maybe some hernia mesh, too. But
      they -- the products weren't specifically named.
      So I -- I -- I can't -- I mean, it was a number of
      devices, right?
      BY MR. HUTCHINSON:
                 Yeah.
         0.
                 Not -- not -- those specific products
         A.
10
      were not named.
                 Right. So I'm not asking about whether
11
         Ο.
      or not Iakovlev named them. My question to you,
12
      sir, is do you have any scientific evidence that
13
14
      any of those nine products have become embrittled
15
      in vivo?
16
                  MR. BOWMAN: Object to form.
                  THE WITNESS: Again, not direct -- what
17
      did you say? Embrittled? I mean, there's no
18
19
      direct evidence that those specific products has
20
      been published.
21
      BY MR. HUTCHINSON:
                 And nor do you have any scientific
22
      evidence that any of those nine products have
23
24
      become embrittled, do you?
```

```
Page 73
1
                                Object to form.
                  MR. BOWMAN:
                  THE WITNESS: I guess I'm a little hung
3
      up on scientific evidence. I mean, you mean
      directly measured, right? Reported?
      BY MR. HUTCHINSON:
                  (Indicating yes.)
                 I mean, I believe -- well, you know my
         A.
                 But I --
      opinions.
                 Well, I'm trying to find out your
         Q.
10
      opinions.
11
         Α.
                 Okay.
                 So my opinions are -- that's the goal
12
         0.
13
      of today.
                       I understand. But -- okay.
14
                 No.
         Α.
      I'll state it again. I mean, I believe -- I don't
15
      want to argue about it. I mean, I believe that
16
      those devices are made of polypropylene, which
17
      these fundamental chemical reactions apply to.
18
      Now, has anyone specifically measured it for those
19
20
      devices? I -- I -- I don't know that that's been
      reported, but I believe the body of scientific
21
      evidence says that that's what's happening. That's
22
23
      my opinion. Okay?
                 But my question to you, do you know of
24
         0.
```

```
Page 75
1
                 Nor are you aware of any evidence that
      any of those nine products, specific products, have
2
3
      become embrittled in vivo, are you?
                  MR. BOWMAN:
                                Object to form.
5
                   THE WITNESS: Again, I've not seen
      anybody actually measure that, I mean, if that's
      what you're. . .
      BY MR. HUTCHINSON:
                 And you haven't measured that, have
         0.
10
      you?
11
         Α.
                 No.
12
                 And, Doctor, are you aware of any
         0.
      scientific evidence that any of those nine products
13
      have lost molecular weight in vivo?
14
15
                   MR. BOWMAN: Object to form.
                                 For those nine specific
16
                   THE WITNESS:
      products, no one has shown -- published that they
17
18
      lose molecular weight.
19
      BY MR. HUTCHINSON:
20
                  And are you aware, personally, of any
         0.
      evidence that any of those nine specific products
21
      have lost molecular weight in vivo?
22
                  Could you rephrase that? I didn't --
23
         A
                  Are you personally aware of any
24
         Q.
```

```
Page 87
1
                                Object to form.
                  MR. BOWMAN:
                  THE WITNESS: I'd have to refresh
3
      myself with the documents. I -- I -- I can't
      remember them.
      BY MR. HUTCHINSON:
                 And as a material scientist, you'll
      agree that PROLENE has a different chemical
      composition than pure polypropylene, correct?
                 So PROLENE has two antioxidants, one
         A.
      designed to prevent oxidation during
10
      high-temperature processing, another during
11
                There are flow additives designed to make
12
13
      extrusion easier, calcium stearate, some
                    So there's other additives in there,
14
      surfactants.
15
      but those additives are added mainly for
16
      manufacturing, in my understanding.
                         But PROLENE has a chemical
17
                 Right.
         0.
      different composition -- strike that.
18
                   PROLENE has a different chemical
19
20
      composition than pure PROLENE, correct?
                   MR. BOWMAN: Object to form.
21
22
      BY MR. HUTCHINSON:
                              PROLENE has a different
23
                  I'm sorry.
         0.
      chemical composition than pure polypropylene,
24
```

```
Page 88
1
      correct?
2
                 Well, the -- yeah, the composition's
         Α.
      different because it has these additives.
                  MR. HUTCHINSON: I'm sorry. Did he say
      "well, yeah"?
                   (Whereupon the previously mentioned
      answer was read back by the reporter.)
                  THE WITNESS: I probably said -- yes,
      it's -- it has additives.
10
      BY MR. HUTCHINSON:
                 Doctor, turn to Exhibit 1.
11
      represent to you and the Court that there are 44
12
      different plaintiffs named on the notice of
13
      deposition, starting with Marty Babcock --
14
15
         A.
                 Okay.
                  -- and ending with Thelma Wright.
16
         0.
      That's 44 different cases.
17
18
                  I see.
         A.
                 Did you know you were designated in 44
19
         0.
20
      cases in this litigation?
21
                  I -- I didn't know the exact number of
         A.
           I knew it was a wave. So I knew there were a
22
      number of cases, but I wasn't familiar with the
23
      specific plaintiffs because I'm not giving
24
```

```
Page 95
1
      of that are difficult to predict.
      BY MR. HUTCHINSON:
3
                 But my question is, sir, are you
         0.
      testifying, to a reasonable degree of scientific
      certainty, without having reviewed an explant, that
      Marty Babcock's mesh is oxidizing in her body?
                  MR. BOWMAN: Object to form.
                  THE WITNESS: I mean, I believe that
      the science tells you it's oxidizing. I did not
10
      specifically measure it.
11
      BY MR. HUTCHINSON:
                 Thank you. In fact, you didn't
12
         0.
      specifically measure oxidation of any of the women
13
14
      listed in Exhibit Number 1, correct?
15
                 I've already answered that.
         Α.
16
                 Okay.
         0.
17
                 Yeah, I didn't do that.
         A.
                 And you can't tell us whether or not
18
         Q.
      the mesh of any of the women listed in Exhibit 1
19
20
      oxidized in their body, can you?
                  MR. BOWMAN: Object to the form. Asked
21
22
      and answered.
                   THE WITNESS: I believe I've asked --
23
      I've answered this. I mean, it's -- the science
24
```

```
Page 96
      tells you that that would be -- you would expect it
      to oxidize and degrade. The -- the timing of that
2
3
      is unpredictable. That's what I've said. I didn't
      measure it. But scientific evidence --
      polypropylene oxidizes. There are cells in the
      body that make reactive oxygen species, and you
      would expect it to oxidize in the body based on
      the -- what we know scientifically.
      BY MR. HUTCHINSON:
10
                 I understand that. But I'm -- my
         Q.
      question is related to these 44 women. Can you
11
      tell us, to a reasonable degree of scientific
12
      certainty, whether or not the mesh, in any of these
13
      44 women, ever oxidized?
14
15
                  MR. BOWMAN: Object to form. This is
16
      asked and answered.
                  THE WITNESS: I feel like we're going
17
18
      to go round and round on this.
19
                   (Simultaneous speaking.)
20
                  MR. BOWMAN: I'm going to instruct him
21
      not to answer.
22
                   (Reporter interruption for
23
      clarification.)
24
                  MR. BOWMAN: I said if we're going to
```

Page 97 1 keep asking the same question, I'm going to start instructing him not to answer. 3 BY MR. HUTCHINSON: I need a clean answer, then I'll move 0. on. MR. BOWMAN: Objection. THE WITNESS: I'm giving you my clean I've said this in trials. I've said this in depositions. You know the record of my 10 testimony. It hasn't changed. The scientific principles states that 11 12 this chemical reaction is going to occur. going to oxidize. The clinical implications of 13 14 that are unknown. I did not specifically look at 15 oxidation in these meshes. My testimony has been 16 that these reactions are occurring. And the 17 clinical implication of that in a specific patient is unknown. It's unpredictable. That's been my 18 19 testimony. I --20 BY MR. HUTCHINSON: And you can't tell us when it's 21 0. occurring, can you, in any of these 44 women? 22 23 I think that's what unpredictable means A. is you don't -- you don't know when it's -- when it 24

Page 104 question. 2 BY MR. HUTCHINSON: All right. Doctor, have you ever Q. instructed your students at Vanderbilt to use scientific data in reaching a conclusion? Object to form. MR. BOWMAN: THE WITNESS: Again, we do experiments, make measurements and test hypotheses. BY MR. HUTCHINSON: 10 All right. And, Doctor, let's talk 0. about these nine specific products that you're here 11 12 to give testimony about. Are you aware of any data that confirms 13 14 these nine specific products degraded to the extent it compromised the functionality of the product? 15 16 MR. BOWMAN: Object to form. THE WITNESS: Again, you've asked this 17 18 many times. I've not looked at physical changes in these specific products, these patients. I've not 19 20 looked at that. I didn't test the explants. 21 BY MR. HUTCHINSON: 22 I understand that. But my question is 0. a little bit more general, is -- and it relates to 23 these nine specific products, okay? Are you aware 24

```
Page 105
      of any data that confirms these nine products will
2
      degrade to the extent their intended function is
3
      compromised during a woman's lifetime?
                               Object to the form.
                  MR. BOWMAN:
                  THE WITNESS: Again, you asked this
      before and I said, no, for these products that's
      not been directly measured.
      BY MR. HUTCHINSON:
                 And, Doctor, do you know -- we talked
         0.
10
      about -- well, strike that.
                  Do you know what the mechanism of
11
12
      action of tissue negatively reacting to any of
13
      these nine products is?
14
                  MR. BOWMAN: Object to form.
15
                   THE WITNESS: Can you repeat that?
16
      BY MR. HUTCHINSON:
                          Doctor, do you believe that the
17
         0.
                  Right.
      tissue in women negatively reacts to any of these
18
19
      nine products?
20
                  The --
         Α.
21
                  Or are you qualified to give that
         0.
22
      opinion?
23
                  Well, I believe I'm -- that's what my
         Α.
      report is about. That's what these papers are
24
```

```
Page 107
1
      resulting in a scar plate. I should be more
      precise.
3
                  There's the macrophages and other
      inflammatory cells, foreign body giant cells, that
      migrate into the mesh, adhere to the mesh, secrete
      reactive oxygen species, including hydroxyl
      radicles, that oxidize the polypropylene. That --
      that -- that's in my report. That's the -- that's
9
      the tissue response. The primary components are
10
      the fibroblasts and -- and with the collagen matrix
11
      deposition and the -- and the macrophages.
12
      BY MR. HUTCHINSON:
13
                 Doctor, can you tell us from a
         0.
14
      physiological standpoint how oxidation causes pain
15
      in a woman?
16
                 Again, it's in my report. Oxidation
         A.
17
      leads to reduction of molecular weight,
      embrittlement, and that can lead to cracking, which
18
19
      can lead to erosions and pain. It's hard plastic
20
      in the pelvic floor. That's going to cause pain.
                 And oxidation also leads to reduction
21
         0.
22
      in physical properties, correct?
23
                  MR. BOWMAN: Objection to form.
24
                  THE WITNESS: What -- physical
```

```
Page 134
1
      anatomic site. It depends possibly on the patient.
      It depends on lots of factors, but it's something
3
      that you can't predict, and it's something you
      can't design for.
                 If we look at Exhibit 6 to your
         Ο.
      deposition --
         A.
                  Okay.
                  -- none of the specimens that Imel,
         Q.
9
      I-m-e-l, studied were PROLENE, were they?
10
         Α.
                  These were Boston Scientific meshes, so
      they -- they did not include PROLENE.
11
                  And when a medical device is first
12
13
      implanted in the body, it comes in contact with
14
      body fluids, fair to say?
15
         A.
                  Yes.
                 And macrophages are some of those body
16
         0.
17
      fluids.
18
         A.
                  Well, macrophage is a cell, not a
19
      fluid.
20
                         Or -- or body -- body material.
         Q.
21
      And macrophages contain proteins, correct?
22
                  Well, I mean, all cells contain
         A.
23
      proteins, but it's a -- it's a cell. I mean, a
24
      cell --
```

```
Page 196
                     CERTIFICATE
1
     STATE OF TENNESSEE )
     COUNTY OF DAVIDSON )
                  I, Lise S. Matthews, RMR, CRR, CCP, LCR
     353, Licensed Court Reporter and Notary Public, in
     and for the State of Tennessee, do hereby certify
     that the above deposition was reported by me, and
     the transcript is a true and accurate record to the
     best of my knowledge, skills, and ability.
                  I further certify that I am not related
     to nor an employee of counsel or any of the parties
     to the action, nor am I in any way financially
      interested in the outcome of this case.
                  I further certify that I am duly
      licensed by the Tennessee Board of Court Reporting
     as a Licensed Court Reporter as evidenced by the
      LCR number and expiration date following my name
     below. I further certify that this transcript is
      the work product of this court reporting agency and
      any unauthorized reproduction and/or transfer of it
11
      will be in violation of Tennessee Code Annotated
      39-14-104, Theft of Services.
12
                  IN WITNESS WHEREOF, I have hereunto set
      my hand and affixed my notarial seal this
13
      day of , 2016.
14
15
      Lise S. Matthews, RMR, CRR, CRC
16
      LCR 353 Expiration Date 6/30/2016
      Notary Public Commission Expires
17
      March 6, 2018
18
19
20
22
23
24
```